

AMENDMENTS TO THE CLAIMS

Please AMEND claims 12 and 22 as follows.

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. – 11. (Canceled).

12. (Currently Amended) An injection element, comprising:

a front face surface;

an inner element with a first outlet opening;

an outer element, comprising:

at least one second outlet opening structured and arranged for receiving and injecting fuel in a combustion space, and arranged coaxially to the first outlet opening; and

third outlet openings radially beyond the at least one second outlet opening composed of bores structured and arranged for forming a cooling liquid film layer, wherein the bores are arranged along a ring, which is coaxial to the first outlet opening and the at least one second outlet opening, wherein at least two of the first outlet opening, the at least one second outlet opening and the third outlet openings are arranged on the front face surface,

wherein the injection element is a rocket drive injection element, and

wherein the bores open to the combustion space.

13. (Previously Presented) The injection element according to claim 12, wherein the outer element further comprises a swirler space in which the bores are located.

14. (Previously Presented) The injection element according to claim 13, wherein the swirler space comprises a tapering area in which the bores are located.

15. (Previously Presented) The injection element according to claim 13, wherein the bores are arranged and aligned in the outer element such that a cooling liquid film layer and a fuel injected into the combustion space do not touch one another or mix just after entry into the combustion space.

16. (Previously Presented) The injection element according to claim 12, wherein the outer element further comprises an annular gap, and wherein the bores connect with the annular gap to generate a swirl.

17. (Previously Presented) The injection element according to claim 12, wherein the bores are uniformly distributed over an entire circumference of the outer element.

18. (Previously Presented) The injection element according to claim 12, wherein the bores are uniformly distributed over a portion of an entire circumference of the outer element.

19. (Previously Presented) The injection element according to claim 12, further comprising component feed bores, wherein the bores and the component feed bores are arranged such that liquid jets exiting from the bores mix with liquid jets exiting from the component feed bores.

20. (Previously Presented) The injection element according to claim 12, wherein the injection element is for a rocket drive.

21. (Previously Presented) The injection element according to claim 12, wherein the outer element is arranged coaxially with the inner element

22. (Currently Amended) An injection element, comprising:

a front face surface;

an inner element comprising a first outlet opening;

an outer element with at least one second outlet opening structured and arranged for receiving and injecting fuel in a combustion space, and arranged coaxially to the first outlet opening;

the inner element further comprising third outlet openings composed of bores structured and arranged for forming a cooling liquid film layer, wherein the bores are arranged along a ring, which is coaxial to the first outlet opening and the at least one second outlet opening to surround the first outlet opening,

wherein at least two of the first outlet opening, the at least one second outlet opening and the third outlet openings are arranged on the front face surface,

wherein the injection element is a rocket drive injection element, and

wherein the bores open to the combustion space.

23. (Previously Presented) The injection element according to claim 22, wherein the bores are uniformly distributed over an entire circumference of the inner element.

24. (Previously Presented) The injection element according to claim 22, wherein the bores are uniformly distributed over a portion of an entire circumference of the inner element.

25. (Previously Presented) The injection element according to claim 22, further comprising component feed bores, wherein the bores and the component feed bores are arranged such that liquid jets exiting from the bores mix with liquid jets exiting from the component feed bores.

26. (Previously Presented) The injection element according to claim 22, wherein the injection element is for a rocket drive.

27. (Previously Presented) The injection element according to claim 22, wherein the outer element is arranged coaxially with the inner element

28. (Previously Presented) A method of injecting fuel into a combustion chamber comprising:  
guiding fuel into the combustion chamber through a first outlet opening;  
guiding fuel into the combustion chamber through a second outlet opening  
arranged coaxially with the first outlet opening; and

forming a cooling liquid film layer in the combustion chamber through bores arranged to coaxially surround the first outlet opening.

29. (Previously Presented) The method according to claim 28, wherein the cooling liquid film layer is directed at least in part towards a combustion space inner wall.

30. (Previously Presented) The method of claim 28, wherein the bores are arranged to coaxially surround the second outlet opening.

31. (Previously Presented) The method of claim 28, wherein fuel for forming the cooling liquid film layer is supplied from the fuel guided to the first outlet opening.

32. (Previously Presented) The method of claim 28, wherein fuel for forming the cooling liquid film layer is supplied from the fuel guided to the second outlet opening.

33. (Previously Presented) The injection element according to claim 12 in combination with a combustion chamber, wherein the third outlet openings are structured and arranged for forming the cooling liquid film layer on a wall of the combustion chamber.

34. (Previously Presented) The injection element according to claim 22, in combination with a combustion chamber, wherein the third outlet openings are structured and arranged for forming the cooling liquid film layer on a wall of the combustion chamber.

35. (Previously Presented) The injection element according to claim 12, wherein each of the first outlet opening, the at least one second outlet opening and the third outlet openings are arranged on the front face surface.

36. (Previously Presented) The injection element according to claim 22, wherein each of the first outlet opening, the at least one second outlet opening and the third outlet openings are arranged on the front face surface.